

Claims after this response:

1.(Currently Amended) A method for obtaining a client program grammar communication from an Application Programming Interface (API) call to an instrument, comprising:

using a system controller to obtaining the API call;

when metadata is associated with the API call,

to obtaining the associated metadata; and

to automatically determining a best estimation of the client program grammar communication from the associated metadata and from the API call; and

otherwise,

to automatically obtaining a best estimation of the client program grammar communication from the API call.

2.(Original) The method as recited in Claim 1, wherein the API call is a .NET API call.

3. (Original) The method as recited in Claim 1, wherein the client program grammar communication is a Standard Commands for Programmable Instrumentation (SCPI) communication.

4. (Original) The method as recited in Claim 3, further comprising:

evaluating the obtained best estimation of the SCPI communication for conformance of the best estimation of SCPI communication to SCPI specifications.

5. (Original) The method as recited in Claim 4, further comprising:

when the obtained best estimation of the SCPI communication does not conform to SCPI specifications, manually adjusting the obtained best estimation of the SCPI communication to conform to SCPI specifications.

6. (Original) The method as recited in Claim 3, further comprising:

evaluating the obtained best estimation of the SCPI communication for conformance of the best estimation of the SCPI communication to General-Purpose Interface Bus (GPIB) specifications.

7. (Original) The method as recited in Claim 6, further comprising:

when the obtained best estimation of the SCPI communication does not conform to GPIB specifications, manually adjusting the obtained best estimation of the SCPI communication to conform to GPIB specifications.

8. (Currently Amended) A computer readable memory device embodying a computer program of instructions executable by ~~the~~a computer, the instructions comprising:

obtaining an Application Programming Interface (API) call;

when metadata is associated with the API call;

obtaining the associated metadata; and

automatically determining a best estimation of a client program grammar communication from the associated metadata and from the API call; and

otherwise,

automatically obtaining a best estimation of the client program grammar communication from the API call.

9. (Original) The computer readable memory device as recited in Claim 8, wherein the API call is a .NET API call.

10. (Original) The computer readable memory device as recited in Claim 8, wherein the client program grammar communication is a Standard Commands for Programmable Instrumentation (SCPI) communication.

11. (Original) The computer readable memory device as recited in Claim 10, the instructions further comprising:

evaluating the obtained best estimation of the SCPI communication for conformance of the best estimation of the SCPI communication to SCPI specifications.

12. (Original) The computer readable memory device as recited in Claim 11, the instructions further comprising:

when the obtained best estimation of the SCPI communication does not conform to SCPI specifications, manually adjusting the obtained best estimation of the SCPI communication to conform to SCPI specifications.

13. (Original) The computer readable memory device as recited in Claim 10, the instructions further comprising:

evaluating the obtained best estimation of the SCPI communication for conformance of the best estimation of the SCPI communication to General-Purpose Interface Bus (GPIB) specifications.

14. (Original) The computer readable memory device as recited in Claim 13, the instructions further comprising:

when the obtained best estimations of the SCPI communication does not conform to GPIB specifications, manually adjusting the obtained best estimation of the SCPI communication to conform to GPIB specifications.

15. (Currently Amended) A data processing system, comprising:

a data processor having a generator module configured to receive an Application Programming Interface (API) call, configured to obtain metadata when such metadata is associated with the API call, and configured to automatically determine a best estimation of the client program communication from the API call and, when such metadata has been obtained, also from the associated metadata.

16. (Original) The system as recited in Claim 15, wherein the API call is a .NET API call.

17. (Original) The system as recited in Claim 15, wherein the client program grammar communication is a Standard Commands for Programmable Instrumentation (SCPI) communication.

18. (Original) The system as recited in Claim 17, wherein the generator is further configured to evaluate the obtained best estimation of the SCPI communication with regard to conformance of the best estimation of the SCPI communication to SCPI specifications.

19.(Original) The system as recited in Claim 17, wherein the generator is further configured to evaluate the obtained best estimation of the SCPI communication with regard to conformance of the best estimation of the SCPI communication to General-Purpose Interface Bus (GPIB) specifications.

20. (Original) The system as recited in Claim 19, wherein GPIB specifications are specified by the Institute of Electrical and Electronic engineers (IEEE) specification number, IEEE 488.1.